Artisan

```
// Added in 5.1.11:http://laravel.com/docs/5.1/authorization#creating-policies
 php artisan make:policy PostPolicy
// Displays help for a given command
 php artisan --help OR -h
// Do not output any message
 php artisan --quiet OR -q
// Display this application version
 php artisan --version OR -V
// Do not ask any interactive question
 php artisan --no-interaction OR -n
// Force ANSI output
 php artisan --ansi
// Disable ANSI output
 php artisan --no-ansi
// The environment the command should run under
 php artisan --env
// -v|vv|vvv Increase the verbosity of messages: 1 for normal output, 2 for more verbose
 output and 3 for debug
 php artisan --verbose
// Remove the compiled class file
 php artisan clear-compiled
// Display the current framework environment
 php artisan env
// Displays help for a command
 php artisan help
// Lists commands
 php artisan list
// Interact with your application
 php artisan tinker
// Put the application into maintenance mode
 php artisan down
// Bring the application out of maintenance mode
 php artisan up
// Optimize the framework for better performance
// --force    Force the compiled class file to be written.
// --psr      Do not optimize Composer dump-autoload.
 php artisan optimize [--force] [--psr]
// Serve the application on the PHP development server
 php artisan serve
// Change the default port
 php artisan serve --port 8080
// Get it to work outside localhost
 php artisan serve --host 0.0.0.0
// Set the application namespace
 php artisan app:name namespace
// Flush expired password reset tokens
```

```
 php artisan auth:clear-resets
// Flush the application cache
 php artisan cache:clear
// Create a migration for the cache database table
 php artisan cache:table
// Create a cache file for faster configuration loading
 php artisan config:cache
// Remove the configuration cache file
 php artisan config:clear
// In program
 $exitCode = Artisan::call('config:cache');
// Seed the database with records
// --class      The class name of the root seeder (default: "DatabaseSeeder")
// --database   The database connection to seed
// --force      Force the operation to run when in production.
 php artisan db:seed [--class["..."]] [--database["..."]] [--force]

// Generate the missing events and handlers based on registration
 php artisan event:generate

// Create a new command handler class
// --command      The command class the handler handles.
 php artisan handler:command [--command="..."] name
// Create a new event handler class
// --event        The event class the handler handles.
// --queued       Indicates the event handler should be queued.
 php artisan handler:event [--event="..."] [--queued] name

// Set the application key
 php artisan key:generate

// By default, this creates a self-handling command that isn't pushed to the queue.
// Pass this the --handler flag to generate a handler, and the --queued flag to make it
queued.
 php artisan make:command [--handler] [--queued] name
// Create a new Artisan command
//  --command     The terminal command that should be assigned. (default:
"command:name")
 make:command [--command["..."]] name
// Create a new resourceful controller
// --plain      Generate an empty controller class.
 php artisan make:controller [--plain] name
php artisan make:controller App\\Admin\\Http\\Controllers\\DashboardController
// Create a new event class
 php artisan make:event name
// Create a new middleware class
 php artisan make:middleware name
// Create a new migration file
// --create     The table to be created.
// --table      The table to migrate.
```

```
 php artisan make:migration [--create["..."]] [--table["..."]] name
// Create a new Eloquent model class
 php artisan make:model name
// Create a new service provider class
 php artisan make:provider name
// Create a new form request class
 php artisan make:request name
// Database migrations
// --database   The database connection to use.
// --force      Force the operation to run when in production.
// --path       The path of migrations files to be executed.
// --pretend    Dump the SQL queries that would be run.
// --seed       Indicates if the seed task should be re-run.
 php artisan migrate [--database["..."]] [--force] [--path["..."]] [--pretend] [-
-seed]
// Create the migration repository
 php artisan migrate:install [--database["..."]]
// Create a new migration file
// --seeder     The class name of the root seeder.
 php artisan migrate:refresh [--database["..."]] [--force] [--seed] [--seeder["..."]]
// Rollback all database migrations
// --pretend    Dump the SQL queries that would be run.
 php artisan migrate:reset [--database["..."]] [--force] [--pretend]
// Rollback the last database migration
 php artisan migrate:rollback [--database["..."]] [--force] [--pretend]
// Show a list of migrations up/down
 php artisan migrate:status
// Create a migration for the queue jobs database table
 php artisan queue:table
// Listen to a given queue
// --queue      The queue to listen on
// --delay      Amount of time to delay failed jobs (default: 0)
// --memory     The memory limit in megabytes (default: 128)
// --timeout    Seconds a job may run before timing out (default: 60)
// --sleep      Seconds to wait before checking queue for jobs (default: 3)
// --tries      Number of times to attempt a job before logging it failed (default: 0)
 php artisan queue:listen [--queue["..."]] [--delay["..."]] [--memory["..."]] [-
-timeout["..."]] [--sleep["..."]] [--tries["..."]] [connection]
// List all of the failed queue jobs
 php artisan queue:failed
// Create a migration for the failed queue jobs database table
 php artisan queue:failed-table
// Flush all of the failed queue jobs
 php artisan queue:flush
// Delete a failed queue job
 php artisan queue:forget
// Restart queue worker daemons after their current job
 php artisan queue:restart
// Retry a failed queue job(id: The ID of the failed job)
 php artisan queue:retry id
```

```
// Subscribe a URL to an Iron.io push queue
// queue: The name of Iron.io queue.
// url: The URL to be subscribed.
// --type       The push type for the queue.
 php artisan queue:subscribe [--type["..."]] queue url
// Process the next job on a queue
// --queue      The queue to listen on
// --daemon     Run the worker in daemon mode
// --delay      Amount of time to delay failed jobs (default: 0)
// --force      Force the worker to run even in maintenance mode
// --memory     The memory limit in megabytes (default: 128)
// --sleep      Number of seconds to sleep when no job is available (default: 3)
// --tries      Number of times to attempt a job before logging it failed (default: 0)
 php artisan queue:work [--queue["..."]] [--daemon] [--delay["..."]] [--force] [-
-memory["..."]] [--sleep["..."]] [--tries["..."]] [connection]

// Create a route cache file for faster route registration
 php artisan route:cache
// Remove the route cache file
 php artisan route:clear
// List all registered routes
 php artisan route:list

// Run the scheduled commands
 php artisan schedule:run

// Create a migration for the session database table
 php artisan session:table

// Publish any publishable assets from vendor packages
// --force        Overwrite any existing files.
// --provider     The service provider that has assets you want to publish.
// --tag          The tag that has assets you want to publish.
 php artisan vendor:publish [--force] [--provider["..."]] [--tag["..."]]
php artisan tail [--path["..."]] [--lines["..."]] [connection]
```

Composer

```
composer create-project laravel/laravel folder_name
composer install
composer update
composer dump-autoload [--optimize]
composer self-update
composer require [options] [--] [vendor/packages]...
```

Config

```
Config::get('app.timezone');
//get with Default value
 Config::get('app.timezone', 'UTC');
//set Configuration
 Config::set('database.default', 'sqlite');
```

Route

```
Route::get('foo', function(){});
Route::get('foo', 'ControllerName@function');
Route::controller('foo', 'FooController');
```

RESTful Controllers

```
Route::resource('posts','PostsController');
//Specify a subset of actions to handle on the route
 Route::resource('photo', 'PhotoController',['only' => ['index', 'show']]);
Route::resource('photo', 'PhotoController',['except' => ['update', 'destroy']]);
```

Triggering Errors

```
App::abort(404);
$handler->missing(...) in ErrorServiceProvider::boot();
throw new NotFoundHttpException;
```

Route Parameters

```
Route::get('foo/{bar}', function($bar){});
Route::get('foo/{bar?}', function($bar = 'bar'){});
```

HTTP Verbs

```
Route::any('foo', function(){});
Route::post('foo', function(){});
Route::put('foo', function(){});
Route::patch('foo', function(){});
Route::delete('foo', function(){});
// RESTful actions
 Route::resource('foo', 'FooController');
// Registering A Route For Multiple Verbs
 Route::match(['get', 'post'], '/', function(){});
```

Secure Routes(TBD)

```
Route::get('foo', array('https', function(){}));
```

Route Constraints

```
Route::get('foo/{bar}', function($bar){})
->where('bar', '[0-9]+');
Route::get('foo/{bar}/{baz}', function($bar, $baz){})
->where(array('bar' => '[0-9]+', 'baz' => '[A-Za-z]'))


// Set a pattern to be used across routes
 Route::pattern('bar', '[0-9]+')
```

HTTP Middleware

```
// Assigning Middleware To Routes
 Route::get('admin/profile', ['middleware' => 'auth', function(){}]);
Route::get('admin/profile', function(){})->middleware('auth');
```

Named Routes

```
Route::currentRouteName();
Route::get('foo/bar', array('as' => 'foobar', function(){}));
Route::get('user/profile', [
  'as' => 'profile', 'uses' => 'UserController@showProfile'
]);
Route::get('user/profile', 'UserController@showProfile')->name('profile');
$url = route('profile');
$redirect = redirect()->route('profile');
```

Route Prefixing

```
Route::group(['prefix' => 'admin'], function()
{
  Route::get('users', function(){
      return 'Matches The "/admin/users" URL';
  });
});
```

Route Namespacing

```
// This route group will carry the namespace 'Foo\Bar'
 Route::group(array('namespace' => 'Foo\Bar'), function(){})
```

Sub-Domain Routing

```
// {sub} will be passed to the closure
 Route::group(array('domain' => '{sub}.example.com'), function(){});
```

Environment

```
$environment = app()->environment();
$environment = App::environment();
$environment = $app->environment();
// The environment is local
 if ($app->environment('local')){}
// The environment is either local OR staging...
 if ($app->environment('local', 'staging')){}
```

Log

```
// The logger provides the seven logging levels defined in RFC 5424:
// debug, info, notice, warning, error, critical, and alert.
 Log::info('info');
Log::info('info',array('context'=>'additional info'));
Log::error('error');
Log::warning('warning');
// get monolog instance
 Log::getMonolog();
// add listener
 Log::listen(function($level, $message, $context) {});
```

Query Logging

```
// enable the log
 DB::connection()->enableQueryLog();
// get an array of the executed queries
 DB::getQueryLog();
```

URL

```
URL::full();
URL::current();
URL::previous();
URL::to('foo/bar', $parameters, $secure);
URL::action('NewsController@item', ['id'=>123]);
// need be in appropriate namespace
 URL::action('Auth\AuthController@logout');
URL::action('FooController@method', $parameters, $absolute);
URL::route('foo', $parameters, $absolute);
URL::secure('foo/bar', $parameters);
URL::asset('css/foo.css', $secure);
URL::secureAsset('css/foo.css');
URL::isValidUrl('http://example.com');
URL::getRequest();
URL::setRequest($request);
```

Event

```
Event::fire('foo.bar', array($bar));
// Register an event listener with the dispatcher.
// void listen(string|array $events, mixed $listener, int $priority)
 Event::listen('App\Events\UserSignup', function($bar){});
Event::listen('foo.*', function($bar){});
Event::listen('foo.bar', 'FooHandler', 10);
Event::listen('foo.bar', 'BarHandler', 5);
// Stopping The Propagation Of An Event
// You may do so by returning false from your handler.
 Event::listen('foor.bar', function($event){ return false; });
Event::subscribe('UserEventHandler');
```

DB

Basic Database Usage

```
DB::connection('connection_name');
// Running A Select Query
 $results = DB::select('select * from users where id = ?', [1]);
$results = DB::select('select * from users where id = :id', ['id' => 1]);
// Running A General Statement
 DB::statement('drop table users');
// Listening For Query Events
 DB::listen(function($sql, $bindings, $time){ code_here; });
// Database Transactions
 DB::transaction(function()
{
```

```
  DB::table('users')->update(['votes' => 1]);
  DB::table('posts')->delete();
});
DB::beginTransaction();
DB::rollBack();
DB::commit();
```

Query Builder

```
// Retrieving All Rows From A Table
 DB::table('name')->get();
// Chunking Results From A Table
 DB::table('users')->chunk(100, function($users)
{
  foreach ($users as $user)
  {

//
 }
});
// Retrieving A Single Row From A Table
 $user = DB::table('users')->where('name', 'John')->first();
DB::table('name')->first();
// Retrieving A Single Column From A Row
 $name = DB::table('users')->where('name', 'John')->pluck('name');
DB::table('name')->pluck('column');
// Retrieving A List Of Column Values
 $roles = DB::table('roles')->pluck('title');
$roles = DB::table('roles')->pluck('title', 'name');
// Specifying A Select Clause
 $users = DB::table('users')->select('name', 'email')->get();
$users = DB::table('users')->distinct()->get();
$users = DB::table('users')->select('name as user_name')->get();
// Adding A Select Clause To An Existing Query
 $query = DB::table('users')->select('name');
$users = $query->addSelect('age')->get();
// Using Where Operators
 $users = DB::table('users')->where('votes', '>', 100)->get();
$users = DB::table('users')
              ->where('votes', '>', 100)
              ->orWhere('name', 'John')
              ->get();
$users = DB::table('users')
              ->whereBetween('votes', [1, 100])->get();
$users = DB::table('users')
              ->whereNotBetween('votes', [1, 100])->get();
$users = DB::table('users')
              ->whereIn('id', [1, 2, 3])->get();
$users = DB::table('users')
              ->whereNotIn('id', [1, 2, 3])->get();
```

```php
$users = DB::table('users')
             ->whereNull('updated_at')->get();
DB::table('name')->whereNotNull('column')->get();
// Dynamic Where Clauses
 $admin = DB::table('users')->whereId(1)->first();
$john = DB::table('users')
             ->whereIdAndEmail(2, 'john@doe.com')
             ->first();
$jane = DB::table('users')
             ->whereNameOrAge('Jane', 22)
             ->first();
// Order By, Group By, And Having
 $users = DB::table('users')
             ->orderBy('name', 'desc')
             ->groupBy('count')
             ->having('count', '>', 100)
             ->get();
DB::table('name')->orderBy('column')->get();
DB::table('name')->orderBy('column','desc')->get();
DB::table('name')->having('count', '>', 100)->get();
// Offset & Limit
 $users = DB::table('users')->skip(10)->take(5)->get();
```

Joins

```php
// Basic Join Statement
 DB::table('users')
          ->join('contacts', 'users.id', '=', 'contacts.user_id')
          ->join('orders', 'users.id', '=', 'orders.user_id')
          ->select('users.id', 'contacts.phone', 'orders.price')
          ->get();
// Left Join Statement
 DB::table('users')
      ->leftJoin('posts', 'users.id', '=', 'posts.user_id')
      ->get();
// select * from users where name = 'John' or (votes > 100 and title <> 'Admin')
 DB::table('users')
          ->where('name', '=', 'John')
          ->orWhere(function($query)
          {
              $query->where('votes', '>', 100)
                    ->where('title', '<>', 'Admin');
          })
          ->get();
```

Aggregates

```php
$users = DB::table('users')->count();
$price = DB::table('orders')->max('price');
$price = DB::table('orders')->min('price');
```

```php
$price = DB::table('orders')->avg('price');
$total = DB::table('users')->sum('votes');
```

Raw Expressions

```php
$users = DB::table('users')
                    ->select(DB::raw('count(*) as user_count, status'))
                    ->where('status', '<>', 1)
                    ->groupBy('status')
                    ->get();
// return rows
 DB::select('select * from users where id = ?', array('value'));
// return nr affected rows
 DB::insert('insert into foo set bar=2');
DB::update('update foo set bar=2');
DB::delete('delete from bar');
// returns void
 DB::statement('update foo set bar=2');
// raw expression inside a statement
 DB::table('name')->select(DB::raw('count(*) as count, column2'))->get();
```

Inserts / Updates / Deletes / Unions / Pessimistic Locking

```php
// Inserts
 DB::table('users')->insert(
  ['email' => 'john@example.com', 'votes' => 0]
);
$id = DB::table('users')->insertGetId(
  ['email' => 'john@example.com', 'votes' => 0]
);
DB::table('users')->insert([
  ['email' => 'taylor@example.com', 'votes' => 0],
  ['email' => 'dayle@example.com', 'votes' => 0]
]);
// Updates
 DB::table('users')
          ->where('id', 1)
          ->update(['votes' => 1]);
DB::table('users')->increment('votes');
DB::table('users')->increment('votes', 5);
DB::table('users')->decrement('votes');
DB::table('users')->decrement('votes', 5);
DB::table('users')->increment('votes', 1, ['name' => 'John']);
// Deletes
 DB::table('users')->where('votes', '<', 100)->delete();
DB::table('users')->delete();
DB::table('users')->truncate();
// Unions
// The unionAll() method is also available, and has the same method signature as union.
 $first = DB::table('users')->whereNull('first_name');
```

```php
$users = DB::table('users')->whereNull('last_name')->union($first)->get();
// Pessimistic Locking
 DB::table('users')->where('votes', '>', 100)->sharedLock()->get();
DB::table('users')->where('votes', '>', 100)->lockForUpdate()->get();
```

Model

Basic Usage

```php
// Defining An Eloquent Model
 class User extends Model {}
// generate Eloquent models
 php artisan make:model User
// specify a custom table name
 class User extends Model {
  protected $table = 'my_users';
}
```

More

```php
Model::create(array('key' => 'value'));
// Find first matching record by attributes or create
 Model::firstOrCreate(array('key' => 'value'));
// Find first record by attributes or instantiate
 Model::firstOrNew(array('key' => 'value'));
// Create or update a record matching attibutes, and fill with values
 Model::updateOrCreate(array('search_key' => 'search_value'), array('key' => 'value'));
// Fill a model with an array of attributes, beware of mass assignment!
 Model::fill($attributes);
Model::destroy(1);
Model::all();
Model::find(1);
// Find using dual primary key
 Model::find(array('first', 'last'));
// Throw an exception if the lookup fails
 Model::findOrFail(1);
// Find using dual primary key and throw exception if the lookup fails
 Model::findOrFail(array('first', 'last'));
Model::where('foo', '=', 'bar')->get();
Model::where('foo', '=', 'bar')->first();
```

```
Model::where('foo', '=', 'bar')->exists();
// dynamic
 Model::whereFoo('bar')->first();
// Throw an exception if the lookup fails
 Model::where('foo', '=', 'bar')->firstOrFail();
Model::where('foo', '=', 'bar')->count();
Model::where('foo', '=', 'bar')->delete();
//Output raw query
 Model::where('foo', '=', 'bar')->toSql();
Model::whereRaw('foo = bar and cars = 2', array(20))->get();
Model::on('connection-name')->find(1);
Model::with('relation')->get();
Model::all()->take(10);
Model::all()->skip(10);
// Default Eloquent sort is ascendant
 Model::all()->orderBy('column');
Model::all()->orderBy('column','desc');
```

Soft Delete

```
Model::withTrashed()->where('cars', 2)->get();
// Include the soft deleted models in the results
 Model::withTrashed()->where('cars', 2)->restore();
Model::where('cars', 2)->forceDelete();
// Force the result set to only included soft deletes
 Model::onlyTrashed()->where('cars', 2)->get();
```

Relationships

```
// One To One - User::phone()
 return $this->hasOne('App\Phone', 'foreign_key', 'local_key');
// One To One - Phone::user(), The Inverse Of The Relation
 return $this->belongsTo('App\User', 'foreign_key', 'other_key');

// One To Many - Post::comments()
 return $this->hasMany('App\Comment', 'foreign_key', 'local_key');
//  One To Many - Comment::post()
 return $this->belongsTo('App\Post', 'foreign_key', 'other_key');

// Many To Many - User::roles();
 return $this->belongsToMany('App\Role', 'user_roles', 'user_id', 'role_id');
// Many To Many - Role::users();
 return $this->belongsToMany('App\User');
// Many To Many - Retrieving Intermediate Table Columns
 $role->pivot->created_at;
// Many To Many - Pivot table with extra attributes
 return $this->belongsToMany('App\Role')->withPivot('column1', 'column2');
// Many To Many - Automatically maintained created_at and updated_at timestamps
 return $this->belongsToMany('App\Role')->withTimestamps();
```

```php
// Has Many Through - Country::posts(), A Country model have
// many Post models through an intermediate User model (User::country_id)
 return $this->hasManyThrough('App\Post', 'App\User', 'country_id', 'user_id');

// Polymorphic Relations - Photo::imageable()
 return $this->morphTo();
// Polymorphic Relations - Staff::photos()
 return $this->morphMany('App\Photo', 'imageable');
// Polymorphic Relations - Product::photos()
 return $this->morphMany('App\Photo', 'imageable');
// Polymorphic Relations - Register the morphMap in your AppServiceProvider
 Relation::morphMap([
    'Post' => App\Post::class,
    'Comment' => App\Comment::class,
]);

// Many To Many Polymorphic Relations - Tables: posts,videos,tags,taggables
// Post::tags()
 return $this->morphToMany('App\Tag', 'taggable');
// Video::tags()
 return $this->morphToMany('App\Tag', 'taggable');
// Tag::posts()
 return $this->morphedByMany('App\Post', 'taggable');
// Tag::videos()
 return $this->morphedByMany('App\Video', 'taggable');

// Querying Relations
 $user->posts()->where('active', 1)->get();
// Retrieve all posts that have at least one comment...
 $posts = App\Post::has('comments')->get();
// Retrieve all posts that have three or more comments...
 $posts = Post::has('comments', '>=', 3)->get();
// Retrieve all posts that have at least one comment with votes...
 $posts = Post::has('comments.votes')->get();
// Retrieve all posts with at least one comment containing words like foo%
 $posts = Post::whereHas('comments', function ($query) {
    $query->where('content', 'like', 'foo%');
})->get();

// Eager Loading
 $books = App\Book::with('author')->get();
$books = App\Book::with('author', 'publisher')->get();
$books = App\Book::with('author.contacts')->get();

// Lazy Eager Loading
 $books->load('author', 'publisher');

// Inserting Related Models
 $comment = new App\Comment(['message' => 'A new comment.']);
$post->comments()->save($comment);
```

```php
// save multiple related models
 $post->comments()->saveMany([
    new App\Comment(['message' => 'A new comment.']),
    new App\Comment(['message' => 'Another comment.']),
]);
$post->comments()->create(['message' => 'A new comment.']);

// Updating a belongsTo relationship
 $user->account()->associate($account);
$user->save();
$user->account()->dissociate();
$user->save();

// Inserting Related Models - Many To Many Relationships
 $user->roles()->attach($roleId);
$user->roles()->attach($roleId, ['expires' => $expires]);
// Detach a single role from the user...
 $user->roles()->detach($roleId);
// Detach all roles from the user...
 $user->roles()->detach();
$user->roles()->detach([1, 2, 3]);
$user->roles()->attach([1 => ['expires' => $expires], 2, 3]);

// Any IDs that are not in the given array will be removed from the intermediate table.
 $user->roles()->sync([1, 2, 3]);
// You may also pass additional intermediate table values with the IDs:
 $user->roles()->sync([1 => ['expires' => true], 2, 3]);
```

Events

```php
Model::creating(function($model){});
Model::created(function($model){});
Model::updating(function($model){});
Model::updated(function($model){});
Model::saving(function($model){});
Model::saved(function($model){});
Model::deleting(function($model){});
Model::deleted(function($model){});
Model::observe(new FooObserver);
```

Eloquent Configuration

```php
// Disables mass assignment exceptions from being thrown from model inserts and updates
 Eloquent::unguard();
// Renables any ability to throw mass assignment exceptions
 Eloquent::reguard();
```

Pagination

```
// Auto-Magic Pagination
 Model::paginate(15);
Model::where('cars', 2)->paginate(15);
// "Next" and "Previous" only
 Model::where('cars', 2)->simplePaginate(15);
// Manual Paginator
 Paginator::make($items, $totalItems, $perPage);
// Print page navigators in view
 $variable->links();
```

Lang

```
App::setLocale('en');
Lang::get('messages.welcome');
Lang::get('messages.welcome', array('foo' => 'Bar'));
Lang::has('messages.welcome');
Lang::choice('messages.apples', 10);
// Lang::get alias
 trans('messages.welcome');
```

File

```
File::exists('path');
File::get('path');
File::getRemote('path');
// Get a file's contents by requiring it
 File::getRequire('path');
// Require the given file once
 File::requireOnce('path');
```

```
// Write the contents of a file
 File::put('path', 'contents');
// Append to a file
 File::append('path', 'data');
// Delete the file at a given path
 File::delete('path');
// Move a file to a new location
 File::move('path', 'target');
// Copy a file to a new location
 File::copy('path', 'target');
// Extract the file extension from a file path
 File::extension('path');
// Get the file type of a given file
 File::type('path');
// Get the file size of a given file
 File::size('path');
// Get the file's last modification time
 File::lastModified('path');
// Determine if the given path is a directory
 File::isDirectory('directory');
// Determine if the given path is writable
 File::isWritable('path');
// Determine if the given path is a file
 File::isFile('file');
// Find path names matching a given pattern.
 File::glob($patterns, $flag);
// Get an array of all files in a directory.
 File::files('directory');
// Get all of the files from the given directory (recursive).
 File::allFiles('directory');
// Get all of the directories within a given directory.
 File::directories('directory');
// Create a directory
 File::makeDirectory('path',  $mode = 0777, $recursive = false);
// Copy a directory from one location to another
 File::copyDirectory('directory', 'destination', $options = null);
// Recursively delete a directory
 File::deleteDirectory('directory', $preserve = false);
// Empty the specified directory of all files and folders
 File::cleanDirectory('directory');
```

UnitTest

Install and run

```
// add to composer and update:
 "phpunit/phpunit": "4.0.*"
// run tests (from project root)
```

```
./vendor/bin/phpunit
```

Asserts

```
$this->assertTrue(true);
$this->assertEquals('foo', $bar);
$this->assertCount(1,$times);
$this->assertResponseOk();
$this->assertResponseStatus(403);
$this->assertRedirectedTo('foo');
$this->assertRedirectedToRoute('route.name');
$this->assertRedirectedToAction('Controller@method');
$this->assertViewHas('name');
$this->assertViewHas('age', $value);
$this->assertSessionHasErrors();
// Asserting the session has errors for a given key...
 $this->assertSessionHasErrors('name');
// Asserting the session has errors for several keys...
 $this->assertSessionHasErrors(array('name', 'age'));
$this->assertHasOldInput();
```

Calling routes

```
$response = $this->call($method, $uri, $parameters, $files, $server, $content);
$response = $this->callSecure('GET', 'foo/bar');
$this->session(['foo' => 'bar']);
$this->flushSession();
$this->seed();
$this->seed($connection);
```

SSH 

Executing Commands

```
SSH::run(array $commands);
SSH::into($remote)->run(array $commands);
// specify remote, otherwise assumes default
 SSH::run(array $commands, function($line)
{
  echo $line.PHP_EOL;
});
```

Tasks

```
// define
 SSH::define($taskName, array $commands);
// execute
 SSH::task($taskName, function($line)
{
```

```
  echo $line.PHP_EOL;
});
```

SFTP Uploads

```
SSH::put($localFile, $remotePath);
SSH::putString($string, $remotePath);
```

Schema

```
// Indicate that the table needs to be created
 Schema::create('table', function($table)
{
  $table->increments('id');
});
// Specify a Connection
 Schema::connection('foo')->create('table', function($table){});
// Rename the table to a given name
 Schema::rename($from, $to);
// Indicate that the table should be dropped
 Schema::drop('table');
// Indicate that the table should be dropped if it exists
 Schema::dropIfExists('table');
// Determine if the given table exists
 Schema::hasTable('table');
// Determine if the given table has a given column
 Schema::hasColumn('table', 'column');
// Update an existing table
 Schema::table('table', function($table){});
// Indicate that the given columns should be renamed
 $table->renameColumn('from', 'to');
// Indicate that the given columns should be dropped
 $table->dropColumn(string|array);
// The storage engine that should be used for the table
 $table->engine = 'InnoDB';
// Only work on MySQL
 $table->string('name')->after('email');
```

Indexes

```
$table->string('column')->unique();
$table->primary('column');
// Creates a dual primary key
 $table->primary(array('first', 'last'));
$table->unique('column');
$table->unique('column', 'key_name');
// Creates a dual unique index
 $table->unique(array('first', 'last'));
$table->unique(array('first', 'last'), 'key_name');
```

```
$table->index('column');
$table->index('column', 'key_name');
// Creates a dual index
 $table->index(array('first', 'last'));
$table->index(array('first', 'last'), 'key_name');
$table->dropPrimary(array('column'));
$table->dropPrimary('table_column_primary');
$table->dropUnique(array('column'));
$table->dropUnique('table_column_unique');
$table->dropIndex(array('column'));
$table->dropIndex('table_column_index');
```

Foreign Keys

```
$table->foreign('user_id')->references('id')->on('users');
$table->foreign('user_id')->references('id')->on('users')-
>onDelete('cascade'|'restrict'|'set null'|'no action');
$table->foreign('user_id')->references('id')->on('users')-
>onUpdate('cascade'|'restrict'|'set null'|'no action');
$table->dropForeign(array('user_id'));
$table->dropForeign('posts_user_id_foreign');
```

Column Types

```
// Increments
 $table->increments('id');
$table->bigIncrements('id');

// Numbers
 $table->integer('votes');
$table->tinyInteger('votes');
$table->smallInteger('votes');
$table->mediumInteger('votes');
$table->bigInteger('votes');
$table->float('amount');
$table->double('column', 15, 8);
$table->decimal('amount', 5, 2);

//String and Text
 $table->char('name', 4);
$table->string('email');
$table->string('name', 100);
$table->text('description');
$table->mediumText('description');
$table->longText('description');

//Date and Time
 $table->date('created_at');
$table->dateTime('created_at');
$table->time('sunrise');
```

```
$table->timestamp('added_on');
// Adds created_at and updated_at columns
 $table->timestamps();
$table->nullableTimestamps();

// Others
 $table->binary('data');
$table->boolean('confirmed');
// Adds deleted_at column for soft deletes
 $table->softDeletes();
$table->enum('choices', array('foo', 'bar'));
// Adds remember_token as VARCHAR(100) NULL
 $table->rememberToken();
// Adds INTEGER parent_id and STRING parent_type
 $table->morphs('parent');
->nullable()
->default($value)
->unsigned()
```

Input 

```
Input::get('key');
// Default if the key is missing
 Input::get('key', 'default');
Input::has('key');
Input::all();
// Only retrieve 'foo' and 'bar' when getting input
 Input::only('foo', 'bar');
// Disregard 'foo' when getting input
 Input::except('foo');
Input::flush();
```

Session Input (flash)

```
// Flash input to the session
 Input::flash();
// Flash only some of the input to the session
 Input::flashOnly('foo', 'bar');
// Flash only some of the input to the session
 Input::flashExcept('foo', 'baz');
// Retrieve an old input item
 Input::old('key','default_value');
```

Files

```
// Use a file that's been uploaded
 Input::file('filename');
// Determine if a file was uploaded
 Input::hasFile('filename');
```

```
// Access file properties
 Input::file('name')->getRealPath();
Input::file('name')->getClientOriginalName();
Input::file('name')->getClientOriginalExtension();
Input::file('name')->getSize();
Input::file('name')->getMimeType();
// Move an uploaded file
 Input::file('name')->move($destinationPath);
// Move an uploaded file
 Input::file('name')->move($destinationPath, $fileName);
```

Cache

```
Cache::put('key', 'value', $minutes);
Cache::add('key', 'value', $minutes);
Cache::forever('key', 'value');
Cache::remember('key', $minutes, function(){ return 'value' });
Cache::rememberForever('key', function(){ return 'value' });
Cache::forget('key');
Cache::has('key');
Cache::get('key');
Cache::get('key', 'default');
Cache::get('key', function(){ return 'default'; });
Cache::tags('my-tag')->put('key','value', $minutes);
Cache::tags('my-tag')->has('key');
Cache::tags('my-tag')->get('key');
Cache::tags('my-tag')->forget('key');
Cache::tags('my-tag')->flush();
Cache::increment('key');
Cache::increment('key', $amount);
Cache::decrement('key');
Cache::decrement('key', $amount);
Cache::section('group')->put('key', $value);
Cache::section('group')->get('key');
Cache::section('group')->flush();
```

Cookie

```
Cookie::get('key');
Cookie::get('key', 'default');
// Create a cookie that lasts for ever
 Cookie::forever('key', 'value');
// Create a cookie that lasts N minutes
 Cookie::make('key', 'value', 'minutes');
// Set a cookie before a response has been created
 Cookie::queue('key', 'value', 'minutes');
// Forget cookie
```

```
Cookie::forget('key');
// Send a cookie with a response
$response = Response::make('Hello World');
// Add a cookie to the response
$response->withCookie(Cookie::make('name', 'value', $minutes));
```

Session

```
Session::get('key');
// Returns an item from the session
Session::get('key', 'default');
Session::get('key', function(){ return 'default'; });
// Get the session ID
Session::getId();
// Put a key / value pair in the session
Session::put('key', 'value');
// Push a value into an array in the session
Session::push('foo.bar','value');
// Returns all items from the session
Session::all();
// Checks if an item is defined
Session::has('key');
// Remove an item from the session
Session::forget('key');
// Remove all of the items from the session
Session::flush();
// Generate a new session identifier
Session::regenerate();
// Flash a key / value pair to the session
Session::flash('key', 'value');
// Reflash all of the session flash data
Session::reflash();
// Reflash a subset of the current flash data
Session::keep(array('key1', 'key2'));
```

Request

```
// url: http://xx.com/aa/bb
Request::url();
// path: /aa/bb
Request::path();
// getRequestUri: /aa/bb/?c=d
Request::getRequestUri();
// Returns user's IP
Request::ip();
// getUri: http://xx.com/aa/bb/?c=d
Request::getUri();
```

```php
// getQueryString: c=d
 Request::getQueryString();
// Get the port scheme of the request (e.g., 80, 443, etc.)
 Request::getPort();
// Determine if the current request URI matches a pattern
 Request::is('foo/*');
// Get a segment from the URI (1 based index)
 Request::segment(1);
// Retrieve a header from the request
 Request::header('Content-Type');
// Retrieve a server variable from the request
 Request::server('PATH_INFO');
// Determine if the request is the result of an AJAX call
 Request::ajax();
// Determine if the request is over HTTPS
 Request::secure();
// Get the request method
 Request::method();
// Checks if the request method is of specified type
 Request::isMethod('post');
// Get raw POST data
 Request::instance()->getContent();
// Get requested response format
 Request::format();
// true if HTTP Content-Type header contains */json
 Request::isJson();
// true if HTTP Accept header is application/json
 Request::wantsJson();
```

Response

```php
return Response::make($contents);
return Response::make($contents, 200);
return Response::json(array('key' => 'value'));
return Response::json(array('key' => 'value'))
->setCallback(Input::get('callback'));
return Response::download($filepath);
return Response::download($filepath, $filename, $headers);
// Create a response and modify a header value
 $response = Response::make($contents, 200);
$response->header('Content-Type', 'application/json');
return $response;
// Attach a cookie to a response
 return Response::make($content)
->withCookie(Cookie::make('key', 'value'));
```

Redirect

```
return Redirect::to('foo/bar');
return Redirect::to('foo/bar')->with('key', 'value');
return Redirect::to('foo/bar')->withInput(Input::get());
return Redirect::to('foo/bar')->withInput(Input::except('password'));
return Redirect::to('foo/bar')->withErrors($validator);
// Create a new redirect response to the previous location
 return Redirect::back();
// Create a new redirect response to a named route
 return Redirect::route('foobar');
return Redirect::route('foobar', array('value'));
return Redirect::route('foobar', array('key' => 'value'));
// Create a new redirect response to a controller action
 return Redirect::action('FooController@index');
return Redirect::action('FooController@baz', array('value'));
return Redirect::action('FooController@baz', array('key' => 'value'));
// If intended redirect is not defined, defaults to foo/bar.
 return Redirect::intended('foo/bar');
```

Container

```
App::bind('foo', function($app){ return new Foo; });
App::make('foo');
// If this class exists, it's returned
 App::make('FooBar');
// Register a shared binding in the container
 App::singleton('foo', function(){ return new Foo; });
// Register an existing instance as shared in the container
 App::instance('foo', new Foo);
// Register a binding with the container
 App::bind('FooRepositoryInterface', 'BarRepository');
// Register a service provider with the application
 App::register('FooServiceProvider');
// Listen for object resolution
 App::resolving(function($object){});
```

Security

Hashing

```
Hash::make('secretpassword');
Hash::check('secretpassword', $hashedPassword);
Hash::needsRehash($hashedPassword);
```

Encryption

```
Crypt::encrypt('secretstring');
Crypt::decrypt($encryptedString);
Crypt::setMode('ctr');
Crypt::setCipher($cipher);
```

Auth

Authentication

```
// Determine if the current user is authenticated
 Auth::check();
// Get the currently authenticated user
 Auth::user();
// Get the ID of the currently authenticated user
 Auth::id();
// Attempt to authenticate a user using the given credentials
 Auth::attempt(array('email' => $email, 'password' => $password));
// 'Remember me' by passing true to Auth::attempt()
 Auth::attempt($credentials, true);
// Log in for a single request
 Auth::once($credentials);
// Log a user into the application
 Auth::login(User::find(1));
// Log the given user ID into the application
 Auth::loginUsingId(1);
// Log the user out of the application
 Auth::logout();
// Validate a user's credentials
 Auth::validate($credentials);
// Attempt to authenticate using HTTP Basic Auth
 Auth::basic('username');
// Perform a stateless HTTP Basic login attempt
 Auth::onceBasic();
// Send a password reminder to a user
 Password::remind($credentials, function($message, $user){});
```

Authorization

```
// Define abilities
 Gate::define('update-post', 'Class@method');
Gate::define('update-post', function ($user, $post) {...});
// Passing multiple argument
 Gate::define('delete-comment', function ($user, $post, $comment) {});

// Check abilities
 Gate::denies('update-post', $post);
Gate::allows('update-post', $post);
Gate::check('update-post', $post);
```

```php
// Specified a user for checking
 Gate::forUser($user)->allows('update-post', $post);
// Through User model, using Authorizable trait
 User::find(1)->can('update-post', $post);
User::find(1)->cannot('update-post', $post);

// Intercepting Authorization Checks
 Gate::before(function ($user, $ability) {});
Gate::after(function ($user, $ability) {});

// Chekcing in Blade template
 @can('update-post', $post)
@endcan
// with else
 @can('update-post', $post)
@else
@endcan

// Generate a Policy
 php artisan make:policy PostPolicy
// `policy` helper function
 policy($post)->update($user, $post)

// Controller Authorization
 $this->authorize('update', $post);
// for $user
 $this->authorizeForUser($user, 'update', $post);
```

Mail 

```php
Mail::send('email.view', $data, function($message){});
Mail::send(array('html.view', 'text.view'), $data, $callback);
Mail::queue('email.view', $data, function($message){});
Mail::queueOn('queue-name', 'email.view', $data, $callback);
Mail::later(5, 'email.view', $data, function($message){});
// Write all email to logs instead of sending
 Mail::pretend();
```

Messages

```php
// These can be used on the $message instance passed into Mail::send() or Mail::queue()
 $message->from('email@example.com', 'Mr. Example');
$message->sender('email@example.com', 'Mr. Example');
$message->returnPath('email@example.com');
$message->to('email@example.com', 'Mr. Example');
$message->cc('email@example.com', 'Mr. Example');
```

```
$message->bcc('email@example.com', 'Mr. Example');
$message->replyTo('email@example.com', 'Mr. Example');
$message->subject('Welcome to the Jungle');
$message->priority(2);
$message->attach('foo\bar.txt', $options);
// This uses in-memory data as attachments
 $message->attachData('bar', 'Data Name', $options);
// Embed a file in the message and get the CID
 $message->embed('foo\bar.txt');
$message->embedData('foo', 'Data Name', $options);
// Get the underlying Swift Message instance
 $message->getSwiftMessage();
```

Queue

```
Queue::push('SendMail', array('message' => $message));
Queue::push('SendEmail@send', array('message' => $message));
Queue::push(function($job) use $id {});
// Same payload to multiple workers
 Queue::bulk(array('SendEmail', 'NotifyUser'), $payload);
// Starting the queue listener
 php artisan queue:listen
php artisan queue:listen connection
php artisan queue:listen --timeout=60
// Process only the first job on the queue
 php artisan queue:work --once
// Start a queue worker in daemon mode
 php artisan queue:work
// Create migration file for failed jobs
 php artisan queue:failed-table
// Listing failed jobs
 php artisan queue:failed
// Delete failed job by id
 php artisan queue:forget 5
// Delete all failed jobs
 php artisan queue:flush
```

Validation

```
Validator::make(
array('key' => 'Foo'),
array('key' => 'required|in:Foo'),
array('string' => 'nullable|max:5')
);
Validator::extend('foo', function($attribute, $value, $params){});
Validator::extend('foo', 'FooValidator@validate');
```

```
Validator::resolver(function($translator, $data, $rules, $msgs)
{
return new FooValidator($translator, $data, $rules, $msgs);
});
```

Rules

```
accepted
active_url
after:YYYY-MM-DD
before:YYYY-MM-DD
alpha
alpha_dash
alpha_num
array
between:1,10
confirmed
date
date_format:YYYY-MM-DD
different:fieldname
digits:value
digits_between:min,max
boolean
email
exists:table,column
image
in:foo,bar,...
not_in:foo,bar,...
integer
numeric
ip
max:value
min:value
mimes:jpeg,png
regex:[0-9]
required
required_if:field,value
required_with:foo,bar,...
required_with_all:foo,bar,...
required_without:foo,bar,...
required_without_all:foo,bar,...
same:field
size:value
timezone
unique:table,column,except,idColumn
url
```

View

```
View::make('path/to/view');
View::make('foo/bar')->with('key', 'value');
View::make('foo/bar')->withKey('value');
View::make('foo/bar', array('key' => 'value'));
View::exists('foo/bar');
// Share a value across all views
 View::share('key', 'value');
// Nesting views
 View::make('foo/bar')->nest('name', 'foo/baz', $data);
// Register a view composer
 View::composer('viewname', function($view){});
//Register multiple views to a composer
 View::composer(array('view1', 'view2'), function($view){});
// Register a composer class
 View::composer('viewname', 'FooComposer');
View::creator('viewname', function($view){});
```

Blade

```
// Show a section in a template
 @yield('name')
@extends('layout.name')
// Begin a section
 @section('name')
// End a section
 @stop
// End a section and yield
 @section('sidebar')
@show
@parent

@include('view.name')
@include('view.name', array('key' => 'value'));
@lang('messages.name')
@choice('messages.name', 1);

@if
@else
@elseif
@endif

@unless
@endunless

@for
@endfor
```

```
@foreach
@endforeach

@while
@endwhile

//forelse 4.2 feature
 @forelse($users as $user)
@empty
@endforelse

// Echo content
 {{ $var }}
// Echo escaped content
 {{{ $var }}}
// Echo unescaped content; 5.0 feature
 {!! $var !!}
{{-- Blade Comment --}}
// Echoing Data After Checking For Existence
 {{{ $name or 'Default' }}}
// Displaying Raw Text With Curly Braces
 @{{ This will not be processed by Blade }}
```

Form

```
Form::open(array('url' => 'foo/bar', 'method' => 'PUT'));
Form::open(array('route' => 'foo.bar'));
Form::open(array('route' => array('foo.bar', $parameter)));
Form::open(array('action' => 'FooController@method'));
Form::open(array('action' => array('FooController@method', $parameter)));
Form::open(array('url' => 'foo/bar', 'files' => true));
Form::close();
Form::token();
Form::model($foo, array('route' => array('foo.bar', $foo->bar)));
```

Form Elements

```
Form::label('id', 'Description');
Form::label('id', 'Description', array('class' => 'foo'));
Form::text('name');
Form::text('name', $value);
Form::text('name', $value, array('class' => 'name'));
Form::textarea('name');
Form::textarea('name', $value);
Form::textarea('name', $value, array('class' => 'name'));
Form::hidden('foo', $value);
Form::password('password');
```

```
Form::password('password', array('placeholder' => 'Password'));
Form::email('name', $value, array());
Form::file('name', array('class' => 'name'));
Form::checkbox('name', 'value');
// Generating a checkbox that is checked
 Form::checkbox('name', 'value', true, array('class' => 'name'));
Form::radio('name', 'value');
// Generating a radio input that is selected
 Form::radio('name', 'value', true, array('class' => 'name'));
Form::select('name', array('key' => 'value'));
Form::select('name', array('key' => 'value'), 'key', array('class' => 'name'));
Form::selectRange('range', 1, 10);
Form::selectYear('year', 2011, 2015);
Form::selectMonth('month');
Form::submit('Submit!', array('class' => 'name'));
Form::button('name', array('class' => 'name'));
Form::macro('fooField', function()
{
return '<input type="custom"/>';
});
Form::fooField();
```

HTML

```
HTML::macro('name', function(){});
// Convert an HTML string to entities
 HTML::entities($value);
// Convert entities to HTML characters
 HTML::decode($value);
// Generate a link to a JavaScript file
 HTML::script($url, $attributes);
// Generate a link to a CSS file
 HTML::style($url, $attributes);
// Generate an HTML image element
 HTML::image($url, $alt, $attributes);
// Generate a HTML link
 HTML::link($url, 'title', $attributes, $secure);
// Generate a HTTPS HTML link
 HTML::secureLink($url, 'title', $attributes);
// Generate a HTML link to an asset
 HTML::linkAsset($url, 'title', $attributes, $secure);
// Generate a HTTPS HTML link to an asset
 HTML::linkSecureAsset($url, 'title', $attributes);
// Generate a HTML link to a named route
 HTML::linkRoute($name, 'title', $parameters, $attributes);
// Generate a HTML link to a controller action
```

```
 HTML::linkAction($action, 'title', $parameters, $attributes);
// Generate a HTML link to an email address
 HTML::mailto($email, 'title', $attributes);
// Obfuscate an e-mail address to prevent spam-bots from sniffing it
 HTML::email($email);
// Generate an ordered list of items
 HTML::ol($list, $attributes);
// Generate an un-ordered list of items
 HTML::ul($list, $attributes);
// Create a listing HTML element
 HTML::listing($type, $list, $attributes);
// Create the HTML for a listing element
 HTML::listingElement($key, $type, $value);
// Create the HTML for a nested listing attribute
 HTML::nestedListing($key, $type, $value);
// Build an HTML attribute string from an array
 HTML::attributes($attributes);
// Build a single attribute element
 HTML::attributeElement($key, $value);
// Obfuscate a string to prevent spam-bots from sniffing it
 HTML::obfuscate($value);
```

String

```
// Transliterate a UTF-8 value to ASCII
 Str::ascii($value)
Str::camel($value)
Str::contains($haystack, $needle)
Str::endsWith($haystack, $needles)
// Cap a string with a single instance of a given value.
 Str::finish($value, $cap)
Str::is($pattern, $value)
Str::length($value)
Str::limit($value, $limit = 100, $end = '...')
Str::lower($value)
Str::words($value, $words = 100, $end = '...')
Str::plural($value, $count = 2)
// Generate a more truly "random" alpha-numeric string.
 Str::random($length = 16)
// Generate a "random" alpha-numeric string.
 Str::quickRandom($length = 16)
Str::upper($value)
Str::title($value)
Str::singular($value)
Str::slug($title, $separator = '-')
Str::snake($value, $delimiter = '_')
Str::startsWith($haystack, $needles)
```

```
// Convert a value to studly caps case.
 Str::studly($value)
Str::macro($name, $macro)
```

Helper 

Arrays

```
// adds a given key / value pair to the array if the
// given key doesn't already exist in the array
 array_add($array, 'key', 'value');
// collapse an array of arrays into a single array
 array_collapse($array);
// Divide an array into two arrays. One with keys and the other with values
 array_divide($array);
// Flatten a multi-dimensional associative array with dots
 array_dot($array);
// Get all of the given array except for a specified array of items
 array_except($array, array('key'));
// Return the first element in an array passing a given truth test
 array_first($array, function($key, $value){}, $default);
// Strips keys from the array
 array_flatten($array);
// Remove one or many array items from a given array using "dot" notation
 array_forget($array, 'foo');
// Dot notation
 array_forget($array, 'foo.bar');
// Get an item from an array using "dot" notation
 array_get($array, 'foo', 'default');
array_get($array, 'foo.bar', 'default');
// Checks that a given item exists in an array using "dot" notation
 array_has($array, 'products.desk');
// Get a subset of the items from the given array
 array_only($array, array('key'));
// Return array of key => values
 array_pluck($array, 'key');
// Return and remove 'key' from array
 array_pull($array, 'key');
// Set an array item to a given value using "dot" notation
 array_set($array, 'key', 'value');
// Dot notation
 array_set($array, 'key.subkey', 'value');
// Sorts the array by the results of the given Closure
 array_sort($array, function(){});
// Recursively sorts the array using the sort function
 array_sort_recursive();
// Filters the array using the given Closure
 array_where();
// First element of an array
```

```
 head($array);
// Last element of an array
 last($array);
```

Paths

```
// Fully qualified path to the app directory
 app_path();
// Get the path to the public folder
 base_path();
// Fully qualified path to the application configuration directory
 config_path();
// Fully qualified path to the application's database directory
 database_path();
// Gets the path to the versioned Elixir file:
 elixir();
// Fully qualified path to the public directory
 public_path();
// Get the path to the storage folder
 storage_path();
```

Strings

```
// Convert a value to camel case
 camel_case($value);
// Get the class "basename" of the given object / class
 class_basename($class);
// Escape a string
 e('<html>');
// Determine if a given string starts with a given substring
 starts_with('Foo bar.', 'Foo');
// Determine if a given string ends with a given substring
 ends_with('Foo bar.', 'bar.');
// Convert a string to snake case
 snake_case('fooBar');
// Limits the number of characters in a string
 str_limit();
// Determine if a given string contains a given substring
 str_contains('Hello foo bar.', 'foo');
// Result: foo/bar/
 str_finish('foo/bar', '/');
str_is('foo*', 'foobar');
str_plural('car');
str_random(25);
str_singular('cars');
str_slug("Laravel 5 Framework", "-");
// Result: FooBar
 studly_case('foo_bar');
trans('foo.bar');
trans_choice('foo.bar', $count);
```

URLs and Links

```
action('FooController@method', $parameters);
// HTML Link
 asset('img/photo.jpg', $title, $attributes);
// HTTPS link
 secure_asset('img/photo.jpg', $title, $attributes);
route($route, $parameters, $absolute = true);
url('path', $parameters = array(), $secure = null);
```

Miscellaneous

```
// Authenticator instance (Auth)
 auth()->user();
// Generates a redirect response to the user's previous location
 back();
// Hashes the given value using Bcrypt (Hash)
 bcrypt('my-secret-password');
// Creates a collection instance from the supplied items
 collect(['taylor', 'abigail']);
// Gets the value of a configuration variable
 config('app.timezone', $default);
// Generates an HTML hidden input field containing the value of the CSRF token
 {!! csrf_field() !!}
// Retrieves the value of the current CSRF token
 $token = csrf_token();
// Dumps the given variable and ends execution of the script
 dd($value);
// Gets the value of an environment variable or returns a default value
 $env = env('APP_ENV');
$env = env('APP_ENV', 'production');
// Dispatches the given event to its listeners:
 event(new UserRegistered($user));
// Creates a model factory builder for a given class
 $user = factory(App\User::class)->make();
// Generates an HTML hidden input field containing the spoofed value of the form's HTTP
verb
 {!! method_field('delete') !!}
// Retrieves an old input value flashed into the session
 $value = old('value');
$value = old('value', 'default');
// Returns an instance of the redirector to do redirects:
 return redirect('/home');
// Returns the current request instance or obtains an input item
 $value = request('key', $default = null)
// Creates a response instance or obtains an instance of the response factory
 return response('Hello World', 200, $headers);
// Used to get / set a session value
 $value = session('key');
```

```php
$value = session()->get('key');
session()->put('key', $value);
// Will simply return the value it is given.
 value(function(){ return 'bar'; });
// Retrieves a view instance
 return view('auth.login');
// Returns the value it is given
 $value = with(new Foo)->work();
```

Collection 

```php
// Creating Collections
 collect([1, 2, 3]);
// Simply returns the underlying array represented by the collection:
 $collection->all();
// Returns the average of all items in the collection:
 $collection->avg();
// Breaks the collection into multiple, smaller collections of a given size:
 $collection->chunk(4);
// Collapses a collection of arrays into a flat collection:
 $collection->collapse();
// Determines whether the collection contains a given item:
 $collection->contains('New York');
// Returns the total number of items in the collection:
 $collection->count();
// Iterates over the items in the collection and passes each item to a given callback:
 $collection = $collection->each(function ($item, $key) {
});
// Creates a new collection consisting of every n-th element:
 $collection->every(4);
// Pass offset as the second argument:
 $collection->every(4, 1);
// Returns all items in the collection except for those with the specified keys:
 $collection->except(['price', 'discount']);
// Filters the collection by a given callback:
 $filtered = $collection->filter(function ($item) {
    return $item > 2;
});
// Returns the first element in the collection that passes a given truth test:
```

```php
 collect([1, 2, 3, 4])->first(function ($value, $key) {
    return $value > 2;
});
// Flattens a multi-dimensional collection into a single dimension:
 $flattened = $collection->flatten();
// Swaps the collection's keys with their corresponding values:
 $flipped = $collection->flip();
// Removes an item from the collection by its key:
 $collection->forget('name');
// Returns a new collection containing the items:
 $chunk = $collection->forPage(2, 3);
// Returns the item at a given key. If the key does not exist, null is returned:
 $value = $collection->get('name');
// Groups the collection's items by a given key:
 $grouped = $collection->groupBy('account_id');
// Determines if a given key exists in the collection:
 $collection->has('email');
// Joins the items in a collection:
 $collection->implode('product', ', ');
// Removes any values that are not present in the given array or collection:
 $intersect = $collection->intersect(['Desk', 'Chair', 'Bookcase']);
// Returns true if the collection is empty:
 collect([])->isEmpty();
// Keys the collection by the given key:
 $keyed = $collection->keyBy('product_id');
// Pass a callback, which should return the value to key the collection by:
 $keyed = $collection->keyBy(function ($item) {
    return strtoupper($item['product_id']);
});
// Returns all of the collection's keys:
 $keys = $collection->keys();
// Returns the last element in the collection:
 $collection->last();
// Iterates through the collection and passes each value to the given callback:
 $multiplied = $collection->map(function ($item, $key) {
    return $item * 2;
});
// Return the maximum value of a given key:
 $max = collect([['foo' => 10], ['foo' => 20]])->max('foo');
$max = collect([1, 2, 3, 4, 5])->max();
// Merges the given array into the collection:
 $merged = $collection->merge(['price' => 100, 'discount' => false]);
// Return the minimum value of a given key:
 $min = collect([['foo' => 10], ['foo' => 20]])->min('foo');
$min = collect([1, 2, 3, 4, 5])->min();
// Returns the items in the collection with the specified keys:
 $filtered = $collection->only(['product_id', 'name']);
// Retrieves all of the collection values for a given key:
 $plucked = $collection->pluck('name');
// Removes and returns the last item from the collection:
```

```php
 $collection->pop();
// Adds an item to the beginning of the collection:
 $collection->prepend(0);
// Pass a second argument to set the key of the prepended item:
 $collection->prepend(0, 'zero');
// Removes and returns an item from the collection by its key:
 $collection->pull('name');
// Appends an item to the end of the collection:
 $collection->push(5);
// Sets the given key and value in the collection:
 $collection->put('price', 100);
// Returns a random item from the collection:
 $collection->random();
// Pass an integer to random. If that integer is more than 1, a collection of items is
returned:
 $random = $collection->random(3);
// Reduces the collection to a single value:
 $total = $collection->reduce(function ($carry, $item) {
    return $carry + $item;
});
// Filters the collection using the given callback:
 $filtered = $collection->reject(function ($item) {
    return $item > 2;
});
// Reverses the order of the collection's items:
 $reversed = $collection->reverse();
// Searches the collection for the given value and returns its key if found:
 $collection->search(4);
// Removes and returns the first item from the collection:
 $collection->shift();
// Randomly shuffles the items in the collection:
 $shuffled = $collection->shuffle();
// Returns a slice of the collection starting at the given index:
 $slice = $collection->slice(4);
// Sorts the collection:
 $sorted = $collection->sort();
// Sorts the collection by the given key:
 $sorted = $collection->sortBy('price');
// Removes and returns a slice of items starting at the specified index:
 $chunk = $collection->splice(2);
// Returns the sum of all items in the collection:
 collect([1, 2, 3, 4, 5])->sum();
// Returns a new collection with the specified number of items:
 $chunk = $collection->take(3);
// Converts the collection into a plain PHP array:
 $collection->toArray();
// Converts the collection into JSON:
 $collection->toJson();
// Iterates over the collection:
 $collection->transform(function ($item, $key) {
```

```
    return $item * 2;
});
// Returns all of the unique items in the collection:
 $unique = $collection->unique();
// Returns a new collection with the keys reset to consecutive integers:
 $values = $collection->values();
// Filters the collection by a given key / value pair:
 $filtered = $collection->where('price', 100);
// Merges together the values of the given array with the values of the collection:
 $zipped = $collection->zip([100, 200]);
```